

WHAT IS CLAIMED IS:

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1. An organic electroluminescence display device comprising:  
a substrate having an insulating surface;  
a thin film transistor formed over said substrate, said thin film  
transistor comprising an active layer comprising crystalline silicon including  
5 source, drain and channel regions;  
one of said source and drain regions;  
a barrier metal layer interposed between said electrode and said one  
of the source and drain regions to prevent a direct contact therebetween;  
10 a transparent electrode electrically connected to said thin film  
transistor; and  
an organic electroluminescence layer adjacent to said transparent  
electrode,  
wherein said barrier metal layer comprises titanium.

15 2. An organic electroluminescence display device according to claim  
1 wherein said transparent electrode comprises indium tin oxide.

3. An organic electroluminescence display device according to claim  
1 wherein said barrier metal layer contains nitrogen.

20 4. An organic electroluminescence display device comprising:  
a substrate having an insulating surface;  
a thin film transistor formed over said substrate, said thin film  
transistor comprising an active layer comprising crystalline silicon including  
source, drain and channel regions,  
a transparent electrode electrically connected to one of said source  
25 and drain regions;

a barrier metal layer interposed between said transparent electrode and said one of the source and drain regions to prevent a direct contact therebetween;

5 an organic electroluminescence layer adjacent to said transparent electrode; and

a counter electrode opposed to said transparent electrode with said organic electroluminescence layer interposed therebetween, wherein said counter electrode comprises magnesium and silver.

5. An organic electroluminescence display device according to claim  
10 4 wherein said barrier metal layer comprises titanium.

6. An organic electroluminescence display device comprising:  
a substrate having an insulating surface;  
a first thin film transistor disposed over said substrate, wherein said first thin film transistor comprises an active layer including source, drain and channel regions, and a gate electrode adjacent to the channel region;  
15 a second thin film transistor disposed over said substrate,  
wherein said second thin film transistor comprises an active layer including source, drain and channel regions, and a gate electrode adjacent to the channel region,  
20 wherein said gate electrode of the second thin film transistor is electrically connected, to said drain region of the first thin film transistor;  
a transparent electrode electrically connected to the drain region of said second thin film transistor;  
25 a conductive layer disposed between said transparent electrode and said drain region of the second thin film transistor; and  
an organic electroluminescence layer disposed adjacent to said transparent electrode,

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wherein said conductive layer comprises titanium.

7. An organic electroluminescence display device according to claim 6 wherein said conductive layer further contains nitrogen.

8. An organic electroluminescence, display device according to claim 5 6 further comprises a counter electrode opposed to said transparent electrode with said organic electroluminescence layer interposed therebetween, wherein said counter electrode comprises magnesium and silver.

9. An organic electroluminescence display device comprising: a substrate having an insulating surface;

10 a thin film transistor formed over said substrate, said thin film transistor comprising an active layer comprising crystalline silicon including source, drain and channel regions,

an electrode comprising aluminum electrically connected to one of said source and drain regions,

15 a barrier metal layer interposed between said electrode and said one of the source and drain regions to prevent a direct contact therebetween;

a transparent electrode electrically connected to said thin film transistor;

20 an organic electroluminescence layer adjacent to said transparent electrode; and

a peripheral driving circuit comprising another thin film transistor formed over said substrate,

wherein said barrier metal layer comprises titanium.

10. An organic electroluminescence display device comprising:  
a substrate having an insulating surface;

a thin film transistor formed over said substrate, said thin film transistor comprising an active layer comprising crystalline silicon including source, drain and channel regions,

5 a transparent electrode electrically connected to said thin film transistor;

an organic electroluminescence layer adjacent to said transparent electrode; and

a peripheral driving circuit comprising another thin film transistor formed over said substrate.

add C2  
add D3  
add E4  
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